Item	TM4000Plus	TM4000
Magnification	×10～×100,000 (Photographic magnification) ×25～×250,000 (Monitor display magnification)	
Accelerating voltage	5 kV、10 kV、15 kV	
Image signal	Backscattered electrons (BSE) Secondary electrons (SE) Mix (Backscattered electrons + Secondary electrons)	Backscattered electrons (BSE)
Vacuum mode	BSE: Conductor/Standard/Charge-up reduction SE: Standard/Charge-up reduction Mix: Standard/Charge-up reduction	BSE: Standard/Charge-up reduction
Image mode(BSE)	COMPO/Shadow 1/Shadow 2/TOPO	
Sample stage traverse	X：40 mm Y：35 mm	
Maximum sample size	80 mm (in diameter) , 50 mm (in thickness)	
Electron gun	Pre-centered cartridge tungsten filament	
Signal detection system	BSE: High-Sensitivity 4-segment BSE detector SE: High-Sensitivity Low-Vacuum SE detector	BSE: High-Sensitivity 4-segment BSE detector
Auto image adjustment function	Auto start, Auto focus, Auto brightness/contrast	
Save image size	2,560 × 1,920 pixels, 1,280 × 960 pixels, 640 × 480 pixels	
Image format	BMP、TIFF、JPEG	
Data display	Micron marker, micron value, magnification, date and time, image number and comments, WD (Working Distance), accelerating voltage, observation conditions, observation mode, image mode, detection signals	
Evacuation system (vacuum pump)	Turbo molecular pump: 67 L/s x 1 unit Diaphragm pump: 20 L/min	
Operation help functions	Raster rotation, Magnification presets (3 steps), Image shift (±50 μm @WD 6.0 mm)	
Safety functions	Over-current protection function, built-in ELCB	
Size / weight	Main unit: 330 (width) × 614 (depth) × 547 (height) mm, 52 kg (motorized stage) 330 (width) × 617 (depth) × 547 (height) mm, 52 kg (munual stage) Diaphragm pump : 144(width) × 270 (depth) × 216 (height) mm	

System	AZtecOneGO	AZtecOne	AZtecEnergy
Detector type	Silicon Drift Detector (SDD)		
Detection area	10 mm^2	30 mm^2	30 mm^2
Energy resolution	151 eV(Cu-Kα) (equivalent to 129 eV with MnKα)	158 eV(Cu-Kα) (equivalent to 129 eV with MnKα)	158 eV(Cu-Kα) (equivalent to 129 eV with MnKα)
Detection element	$B_5\sim U_{92}$		

For free sample analysis and demonstration contact us at:

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